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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,327	07/22/2004	Enrico Maria Pirinoli	PIR13001/JEK	1658
23364	7590	05/19/2006	EXAMINER	
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314			TON, TRI T	
			ART UNIT	PAPER NUMBER
			2877	

DATE MAILED: 05/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/501,327	PIRINOLI, ENRICO MARIA	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tri T. Ton	2877	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☒ Claim(s) 12 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 July 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Priority*

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Oath/Declaration*

2. The Oath and Declaration filed on 07/22/2004 is acceptable.

### *Drawings*

3. New corrected drawing in compliance with 37 CFR 1.121(d) is required in this application because width  $w_0$  of collimated beam 2' is not in drawings.

The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

### *Specification*

4. The disclosure is objected to because of the following informalities:

Page 8, lines 18 and 21, should give an explanation for Wstrip in integral-sinus functions.

Page 3, lines 28-29, claims should not be mentioned in specification.

Page 14, line 29 in the specification "*the condition 2,5*" should be changed to "*the condition 2.5*".

Numerical references in parentheses in claims should be deleted.

Headings are missing in specification. The examiner respectfully suggests the following headings should be added into specification: FIELD OF THE INVENTION, BACKGROUND INFORMATION, SUMMARY OF THE INVENTION, BRIEF DESCRIPTION OF THE DRAWINGS, DETAILED DESCRIPTION, ABSTRACT OF THE DISCLOSURE.

The abstract, which appears on the page of the PCT Gazette (or on the front page of the pamphlet), which published international application number WO 03/067184 A1, will be used as the abstract for this application.

Black boxes in Figures 1, 2 and 3 should be labeled.

Appropriate correction is required.

#### ***Claim Objections***

5. Claims 12, 6 and 17 are objected because of the following informalities: spelling error.

**The examiner respectfully suggests the following revision:**

Claim 12, line 23, "*are centred exactly in*" should be changed to "*are centered exactly in*".

Claim 6, line 2 and in claim 17, line 2, "*the condition 2,5*" should be changed to "*the condition 2.5*".

***Allowable Subject Matter***

6. **Claims 1-25 would be allowable if rewritten or amended to overcome the objections set forth in this Office action.**

The following is a statement of reasons for the indication of allowable subject matter: there was no prior art found by the examiner that suggested modification or combination with the cited art so as to satisfy the combination of all the limitations in claims 1 and 12.

7. As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render limitations "a continuous field distribution that is the sum of a plurality of functions which are identical to one another apart the sign, are centered exactly in correspondence with a discontinuity point and only depend on the characteristics of the band-pass filtering,"

8. As to claim 12, the prior art of record, taken alone or in combination, fails to disclose or render limitations "a continuous field distribution that is the sum of a plurality of functions which are identical to one another apart from the sign, are **centered** exactly in correspondence with a discontinuity point and only depend on the characteristics of the band-pass filter,"

***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references Blohm et al. (Patent U.S. 6,922,254 B2),

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Demeyere et al. (Publication No. U.S. 2003/0160974 A1) and Faville (U.S. Patent 4,417,147) teach of various features similar to the claimed invention.

10. This application is in condition for allowance except for the following formal matters: Drawings and Specification are objection.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

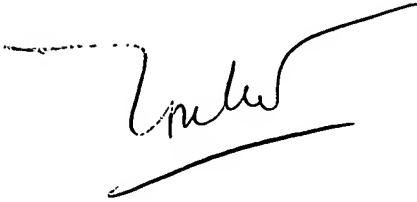
A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri T. Ton whose telephone number is (571) 272-9064. The examiner can normally be reached on 8:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, appearing to read 'Tri Ton', with a long horizontal stroke extending to the right.

May 9, 2006  
Examiner Tri Ton/SN

A handwritten signature in black ink, appearing to read 'Hoa Pham', with a long horizontal stroke extending to the right.

Hoa Pham  
Primary Patent Examiner  
Art Unit 2877  
Technology Center 2800